



**THIRD SPACE
LEARNING**

Area And Circumference Of A Circle Worksheet

Geometry

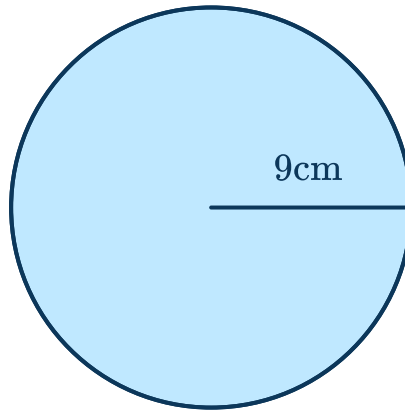
Grades 6 to 8

Questions

Name:

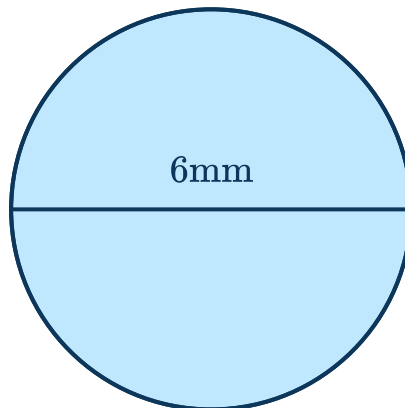
Date:

- 1 Find the area of this circle. Round your answer to the nearest tenth.



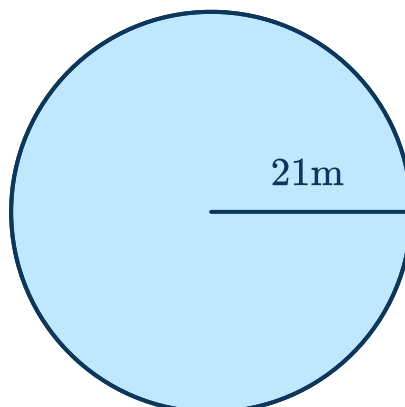
Answer

- 2 Find the area of this circle. Give your answer in terms of π .



Answer

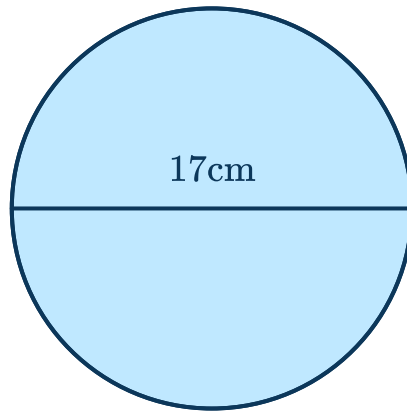
- 3 Find the circumference of this circle. Round your answer to the nearest tenth.



Answer

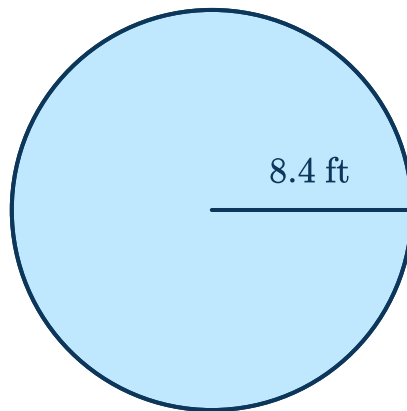
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- 4 Find the circumference of this circle. Give your answer in terms of π .



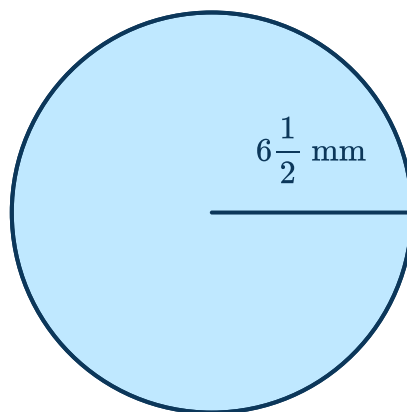
Answer

- 5 A circle has a radius of 8.4 ft. Calculate its circumference. Give your answer in terms of π .



Answer

- 6 A circle has a radius of $6\frac{1}{2}$ mm. Calculate its area. Round your answer to the nearest hundredth.



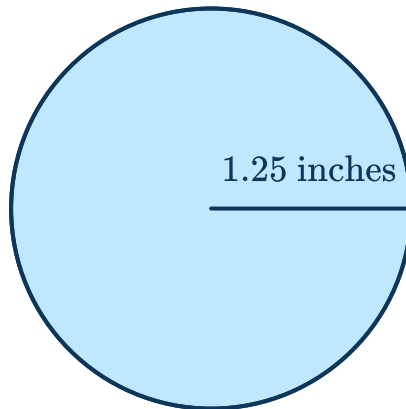
Answer

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- 7 A circle has a diameter of 10.3 km. Calculate its area. Round your answer to the nearest tenth.

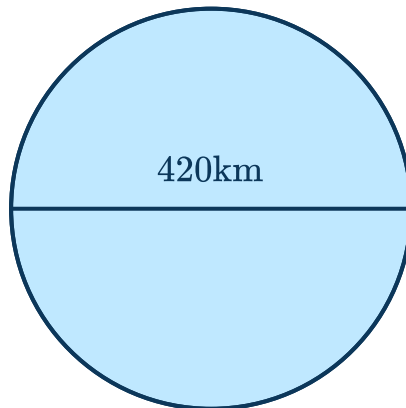
Answer

- 8 A circle has a radius of 1.25 inches. Calculate its area. Give your answer in terms of π .



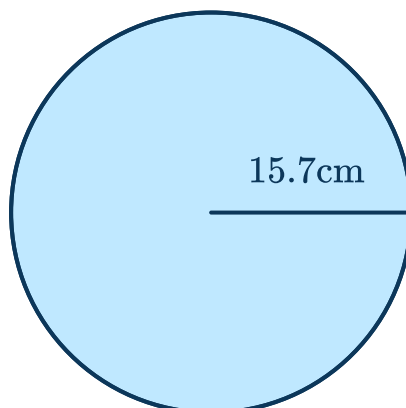
Answer

- 9 A circle has a diameter of 420 km. Calculate its area. Give your answer in terms of π .



Answer

- 10 Find the area of this circle. Give your answer to the nearest whole number.



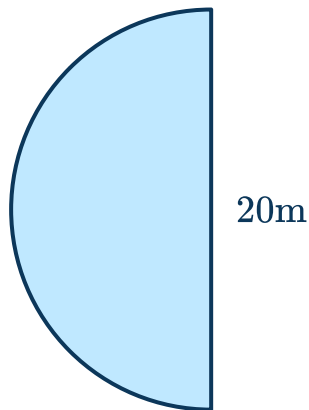
Answer

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- 11** A circle has a diameter of 234.8 inches. Calculate its circumference. Give your answer to the nearest tenth.

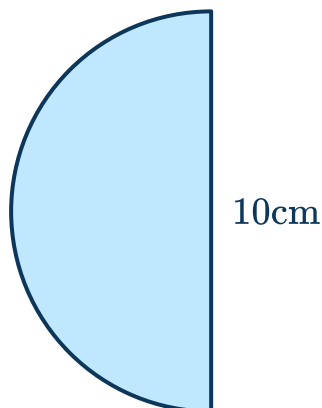
Answer

- 12** A semicircle has a diameter of 20 m. Calculate its perimeter. Give your answer in terms of π .



Answer

- 13** Find the area of this semicircle. Round your answer to the nearest hundredth.



Answer

- 14** A semicircle has a diameter of 12.3 ft. What is the perimeter of the semicircle? Round your answer to the nearest hundredth.

Answer

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- 15 A semicircle has a radius of 7 m. What is the area of the semicircle? Round your answer to the nearest hundredth.

Answer

-
- 16 A circle has a circumference of 157.08 inches. Find the radius.

Answer

-
- 17 A circle has an area of 16π cm². Find the radius.

Answer

-
- 18 A circle has a circumference of 14π ft. Calculate its area. Round your answer to the nearest hundredth.

Answer

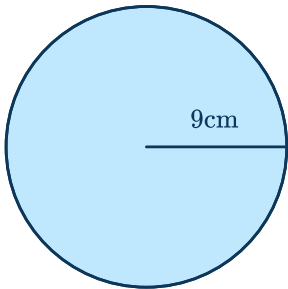
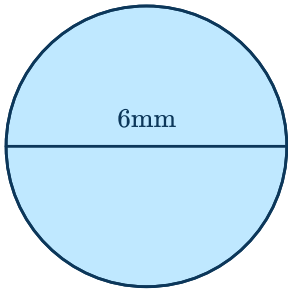
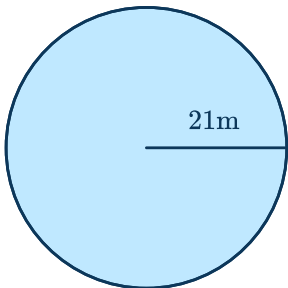
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- 19 A circle has a circumference of 21 ft. Calculate its area. Round your answer to the nearest hundredth.

Answer

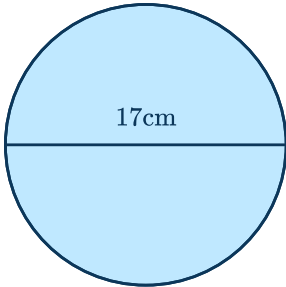
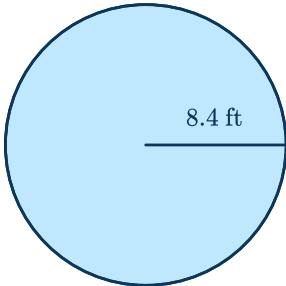
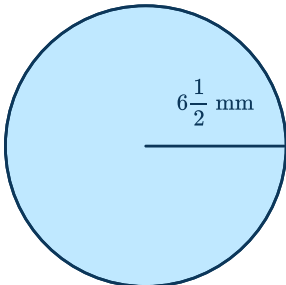
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- 20 A circle has an area of 36π km². Find the circumference, in terms of π .

Answer

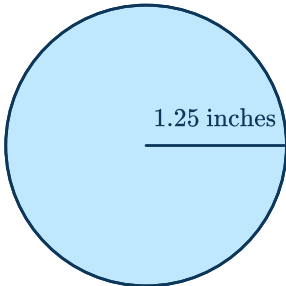
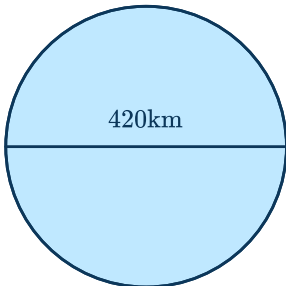
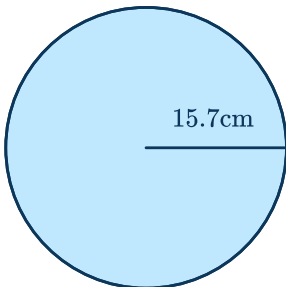
Answers

Question number	Question	Answers	Standard
1	Find the area of this circle. Round your answer to the nearest tenth. 	$A = \pi r^2 = \pi(9)^2 = 81\pi \approx 254.5\text{cm}^2$	7.G.B.4
2	Find the area of this circle. Give your answer in terms of π . 	$r = \frac{6}{2} = 3\text{mm}, A = \pi r^2 = 9\pi\text{mm}^2$	7.G.B.4
3	Find the circumference of this circle. Round your answer to the nearest tenth. 	$C = 2\pi r = 2\pi(21) = 42\pi \approx 131.9\text{m}$	7.G.B.4

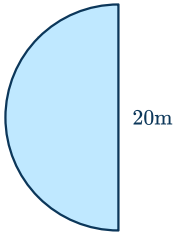
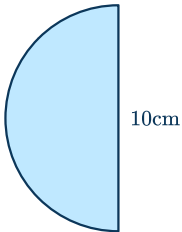
Area And Circumference Of A Circle Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
4	Find the circumference of this circle. Give your answer in terms of π . 	$C = \pi d = \pi(17) = 17\pi\text{cm}$	7.G.B.4
5	A circle has a radius of 8.4 ft. Calculate its circumference. Give your answer in terms of π . 	$C = 2\pi r = 2\pi(8.4) = 16.8\pi\text{ft}$	7.G.B.4
6	A circle has a radius of $6\frac{1}{2}$ mm. Calculate its area. Round your answer to the nearest hundredth. 	$A = \pi r^2 = \pi(6\frac{1}{2})^2 = 4212\pi \approx 132.73\text{mm}^2$	7.G.B.4
7	A circle has a diameter of 10.3 km. Calculate its area. Round your answer to the nearest tenth.	$A = \pi r^2 = (5.15)2\pi \approx 26.5225\pi = 83.3\text{ km}^2$	7.G.B.4

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Question number	Question	Answers	Standard
8	<p>A circle has a radius of 1.25 inches. Calculate its area. Give your answer in terms of π.</p> 	$A = \pi r^2 = \pi(1.25)^2 = 1.5625\pi \text{ inches}^2$	7.G.B.4
9	<p>A circle has a diameter of 420 km. Calculate its area. Give your answer in terms of π.</p> 	$r = \frac{420}{2} = 210 \text{ km}, A = \pi r^2 = \pi(210)^2 = 44100\pi \text{ km}^2$	7.G.B.4
10	<p>Find the area of this circle. Give your answer to the nearest whole number.</p> 	$A = \pi r^2 = \pi(15.7)^2 = 246.49\pi \approx 774 \text{ cm}^2$	7.G.B.4
11	<p>A circle has a diameter of 234.8 inches. Calculate its circumference. Give your answer to the nearest tenth.</p>	$C = \pi d = \pi(234.8) \approx 737.6 \text{ inches}$	7.G.B.4

Area And Circumference Of A Circle Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
12	<p>A semicircle has a diameter of 20 m. Calculate its perimeter. Give your answer in terms of π.</p> 	$P = \pi r + d = \pi(10) + 20$ $= 10\pi + 20\text{m}$	7.G.B.4
13	<p>Find the area of this semicircle. Round your answer to the nearest hundredth.</p> 	$r = \frac{10}{2} = 5\text{cm}, A = \frac{1}{2}$ $\pi r^2 = \frac{1}{2} \pi(5)^2$ $= \frac{25\pi}{2} \approx 39.27\text{cm}^2$	7.G.B.4
14	<p>A semicircle has a diameter of 12.3 ft. What is the perimeter of the semicircle? Round your answer to the nearest hundredth.</p>	$P = \pi r + d = \pi(6.15) + 12.3$ $= 6.15\pi + 12.3 = 31.62\text{ft}$	7.G.B.4
15	<p>A semicircle has a radius of 7 m. What is the area of the semicircle? Round your answer to the nearest hundredth.</p>	$A = \frac{1}{2}\pi r^2 = \frac{1}{2} \pi(7)^2 =$ $\frac{49\pi}{2} \approx 76.97\text{m}^2$	7.G.B.4
16	<p>A circle has a circumference of 157.08 inches. Find the radius.</p>	$C = 2\pi r, r = \frac{157.08}{2\pi}$ $= 25\text{ft}$	7.G.B.4
17	<p>A circle has an area of 16π cm². Find the radius.</p>	$A = \pi r^2, 16\pi =$ $\pi r^2, r^2 = 16, r = 4\text{cm}$	7.G.B.4
18	<p>A circle has a circumference of 14π ft. Calculate its area. Round your answer to the nearest hundredth.</p>	$C = 2\pi r, r = \frac{14\pi}{2\pi}$ $= 7\text{ft}, A = \pi r^2 = \pi(7)^2 =$ 153.94ft^2	7.G.B.4

Area And Circumference Of A Circle Worksheet | Grades 6 to 8 | Answers




Question number	Question	Answers	Standard
19	A circle has a circumference of 21 ft. Calculate its area. Round your answer to the nearest hundredth.	$C = 2\pi r; r = \frac{21}{2\pi}$ $\approx 3.34\text{ft}, A = \pi r^2 \approx \pi(3.34)^2 \approx 35.09\text{ft}^2$	7.G.B.4
20	A circle has an area of $36\pi \text{ km}^2$. Find the circumference, in terms of pi.	$A = \pi r^2, 36\pi = \pi r^2,$ $r^2 = 36, r = 6\text{km}$ $C = 2\pi r = 2(6)\pi = 12\pi\text{km}$	7.G.B.4

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